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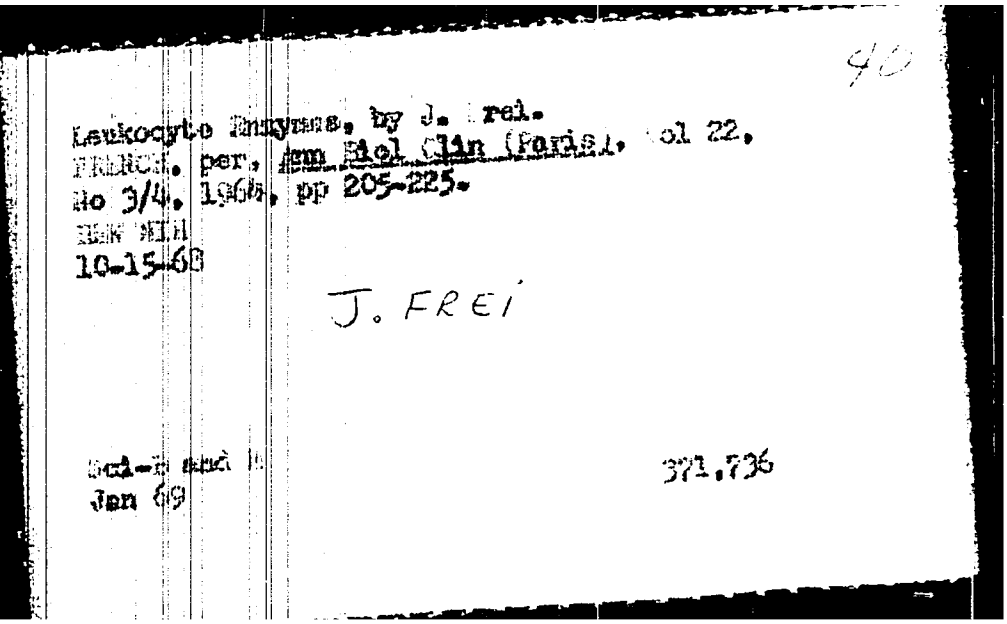

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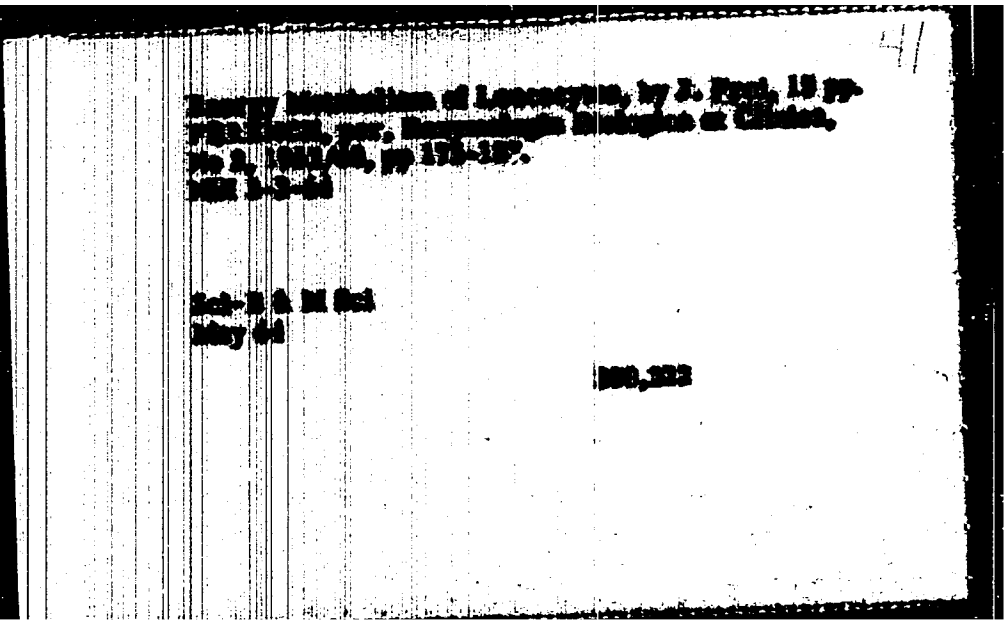

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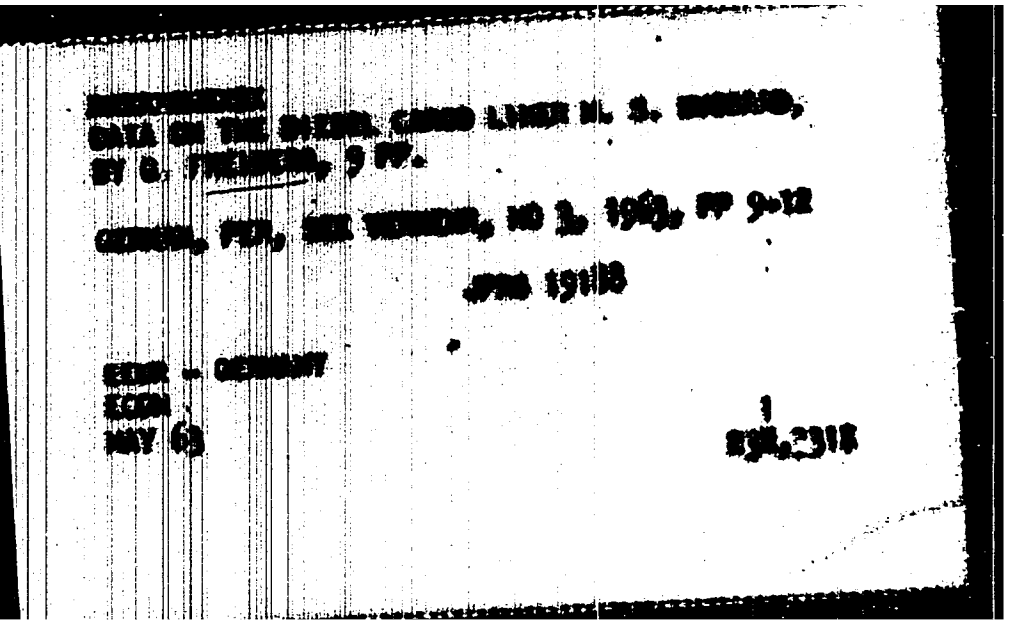

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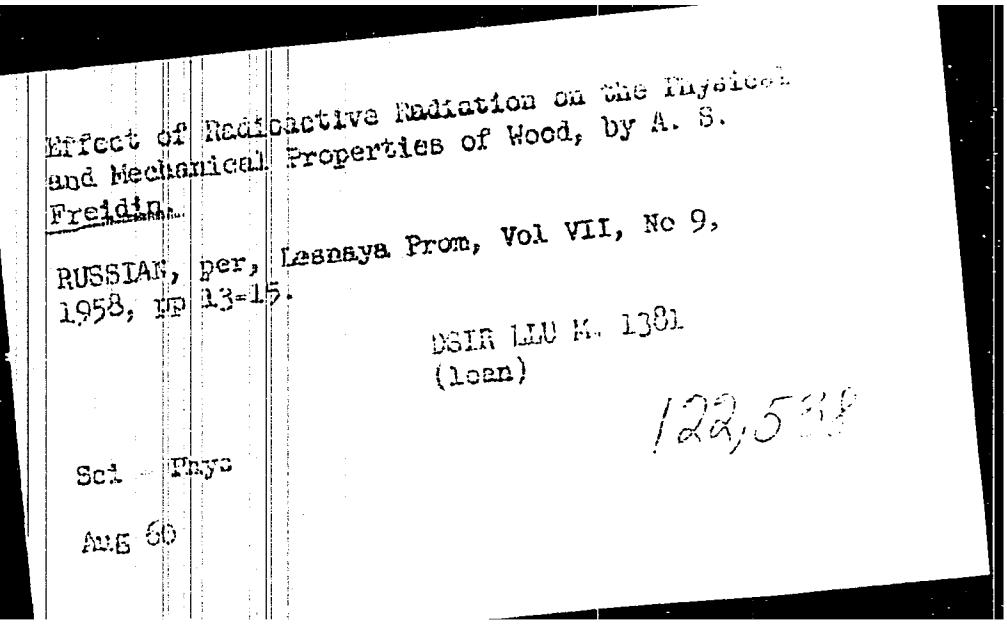

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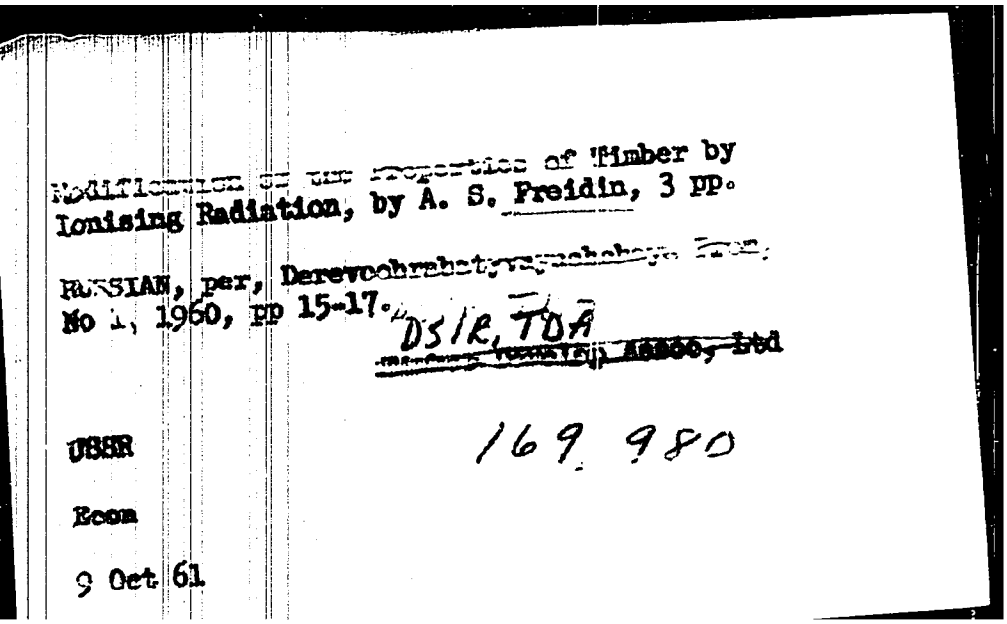

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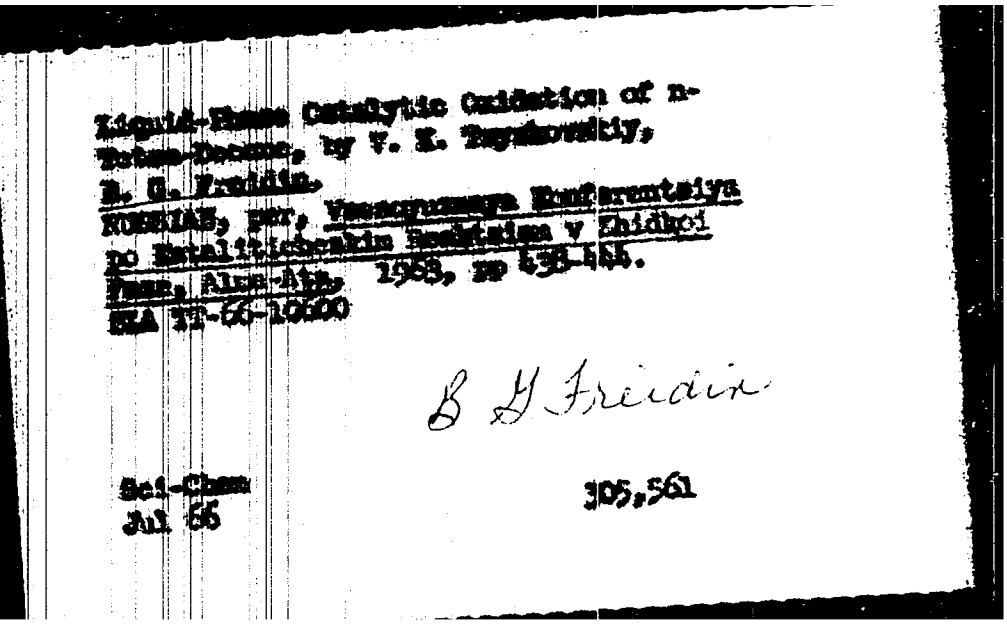

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Order from OTS or SLA $1.10 61-23241

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DESCRIPTORS: *Catalysts, Oxidation, *Hydrocarbons, Potassium compounds, Manganese compounds, Permanganates, Reaction kinetics.

The presence of potassium compounds stabilizes the valency state of manganese in the induction period of oxidation of hydrocarbons in the liquid phase which leads to an increase in the duration of the induction period but accelerates the formation of acids in the advanced stage of the reaction. Under experimental conditions the influence of potassium permanganate was (Chemistry--Physical, TT, v. 6, no. 3) (over)

61-23241

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Order from TTIS $12.00 TTIS NS 69

Trans. of Lakokrasochnye Materialy i Ikh Primenenie (USSR) 1962, no. 1, p. 54-56.

DESCRIPTORS: *Electric potential, Electric currents, *Electric power production, *Sprays, Electrostatics, Paints.

(Materials--Paints, TT, v. 10, no. 2)

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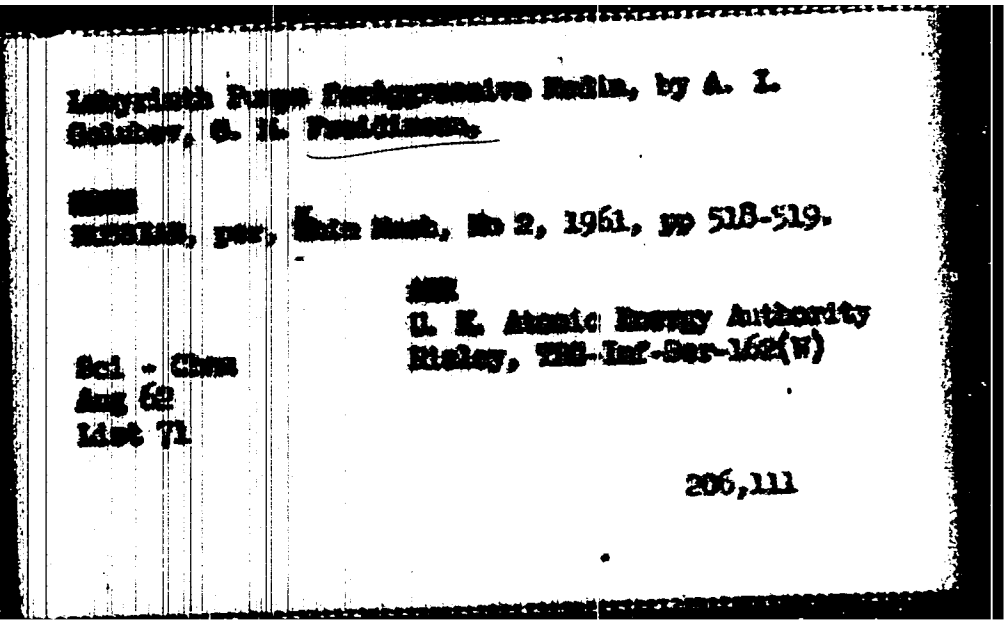

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Order from OTS, SLA, or ETC $1.60 TT-64-14699

Trans. of [Zhurnal Obshchei Khimii] (USSR) 1939, v. 9, p. 996-1006.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Selective Deactivation of a Phosphate Catalyst by Caustic Alkali in the Dehydration of Ethanol, by L. Kh. Freidlin, V. Z. Sharf, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 1959, pp 2042-2043.

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May 61

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Reactivity of Halogenobenzenes in Catalytic Hydrolysis in the Vapor Phase, by L. Kh. Freidlin, A. A. Balandin, G. A. Fridman.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, 1945, pp 655-663.

OTS 61-18888

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Mar 62

189,552

~~Khmk~~ Vol VII, No 2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Kinetics of the Dehydration of Alcohols Over Tricalcium Diphosphate, and the Deactivation of the Latter by Organic Bases, by L. Kh. Freidlin, V. Z. Sharf, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 10, 1960, pp 1861-1867.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Mechanism of the Formation of Secondary Amines by Catalytic Hydrogenation of Adiponitrile, by L.Kh. Freidlin, T.A. Kladkova.
RUSSIAN, per Vysokomolek. Soedin. 1962, pp 229-232
CB 36 [illegible] LP 2451

L. Kh. Freidlin

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Aug 67

338-356

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh. and Gorshkov, V. I.
ZINC CATALYSIS OF HYDROGENATION REACTIONS.
[1963] 6p
Order from ATS $8.25 ATS-87Q72R

Trans. of Akad[emiya] Nauk SSSR. Dokl[ady] 1960, v. 131, no. 5, p. 1109-1112.

DESCRIPTORS: *Zinc, *Catalysis, *Hydrogenation, Chemical reactions.

(Chemistry--Physical, TT, v. 11, no. 3)

TT-64-12057

I. Freidlin, L. Kh.
II. Gorshkov, V. I.
III. ATS-87Q72R
IV. Associated Technical Services, Inc., East Orange, N. J.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh. and Fridman, G. A.
CATALYTIC [SUBSTITUTION] OF HALOGEN BY A HYDROXYL IN THE AROMATIC SERIES. IV. VAPOR-PHASE HYDROLYSIS OF o- AND p-CHLOROPHENOLS AND o- AND p-DICHLOROBENZENES. [29 Oct 52] [19p] 14refs
Order from OTS or SLA $1.60 63-18674

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1949, no. 3, p. 317-325.

DESCRIPTORS: *Benzenes, *Chlorides, *Phenols, Hydroxyl radicals, Hydrolysis, Catalysis, Substitution reactions, Halogens, Insecticides.

The possibility of vapor-phase hydrolysis of o- and p-chlorophenols and o- and p-dichlorobenzenes was investigated and the influence of ring substituents is demonstrated. The catalytic character of the process is
(Chemistry--Organic, TT, v. 10, no. 11) (over)

63-18674

1. Title: Dichlorobenzenes
2. Title: Chlorophenols
I. Freidlin, L. Kh.
II. Fridman, G. A.
III. Title: Vapor . . .
IV. Trans-MT-52-50

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh., Neimark, I. E., Fridman, G. A., Sheinfain, R. Yu., and Khatset, F. I.
RELATION BETWEEN CHARACTER OF POROSITY OF SILICA GEL AND ITS CATALYTIC PROPERTIES.
[1963] 21p 7refs
Order from OTS or SLA $2.60 63-18675

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1950, no. 5, p. 521-530.

DESCRIPTORS: *Silicon compounds, Dioxides, *Gels, Porosity, Catalysis, Chemical reactions, Benzenes, Chlorides.

The interrelations among the porous structure of silica gel, its catalytic activity, its specificity, and its thermal stability in the reaction of vapor-phase hydrolysis of chlorobenzene is investigated. (Author)

(Chemistry--Organic, TT, v. 10, no. 11)

63-18675

I. Freidlin, L. Kh.
II. Neimark, I. E.
III. Fridman, G. A.
IV. Sheinfain, R. Yu.
V. Khatset, F. I.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh., Neimark, I. E., Fridman, G. A., and Sheinfain, R. Yu.
PROMOTING OF SILICA GELS OF DIFFERENT POROSITIES. [1963] 18p 6refs
Order from OTS or SLA $1.60 63-18676

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1951, no. 1, p. 86-94.

DESCRIPTORS: *Silicon compounds, Dioxides, *Gels, Porosity, Copper, Catalysis, Chemical reactions, Benzenes, Chlorides.

The influence of copper upon the catalytic properties of silica gels of various porosities was investigated. Apart from its promoting action, copper regenerates silica gel poisoned by mineral admixtures, enhances its thermal stability and selectivity, and overcomes the diffusional retardation of the reaction. (Author)
(Chemistry--Organic, TT, v. 10, no. 11)

63-18676

I. Freidlin, L. Kh.
II. Neimark, I. E.
III. Fridman, G. A.
IV. Sheinfain, R. Yu.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L.Kh. and Sharf, V.Z.
ETUDE, À L'AIDE D'UN INDICATEUR, DE L'ACIDITÉ DU CATALYSEUR À PHOSPHATE ET DE LA FAÇON DONT ELLE EST MODIFIÉE PAR LA TREMPE (Issledovanie Indikatornym Metodom Kislotnosti Fosfatnogo Katalizatora i ee Izmeneniya Pri Prokalivanii) (Investigation of the Acidity of a Phosphate Catalyst and its Change during Firing by an Indicator Method) 11p. (Foreign text included) 7refs. CNRS-VIII bis 630. Order from OTS, ETC or CNRS $0.80 TT-62-28286

Trans. in French of *Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1960, no.6, p.1128-1130.

DESCRIPTORS: *Catalysts, Calcium compounds, *Phosphates, Acids, Hydrolysis.

(Chemistry--Inorganic, TT, v.11, no. 6)

TT-62-28286

I. Freidlin, L.Kh.
II. Sharf, V.Z.
III. CNRS-VIII bis 630
IV. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh., Balandin, A. A. and others.
CONVERSION OF ARYL HALIDES AND ELIMINATION OF THE AROMATICALLY BOUND HALOGEN WITH STEAM. [1963] 15p. 9 refs.
Order from OTS or SLA $1.60 63-18252

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1946, no. 4, p. 439-446.

DESCRIPTORS: *Benzene derivatives, *Halides, *Chlorides, *Elimination reactions, *Steam, *Catalysis, *Copper catalysts, Chemical reactions.

A new course was found for the catalytic reaction of the interaction of aryl halides with steam, which leads to the elimination of the halogen. A scheme of the process is proposed which allows one to explain and predict a number of its characteristics. The influence of various factors on the reaction was investigated. (Author)
(Chemistry--Physical, TT, v. 10, no. 11)

63-18252

I. Title: Phenyl halides
I. Freidlin, L. Kh.
II. Balandin, A. A.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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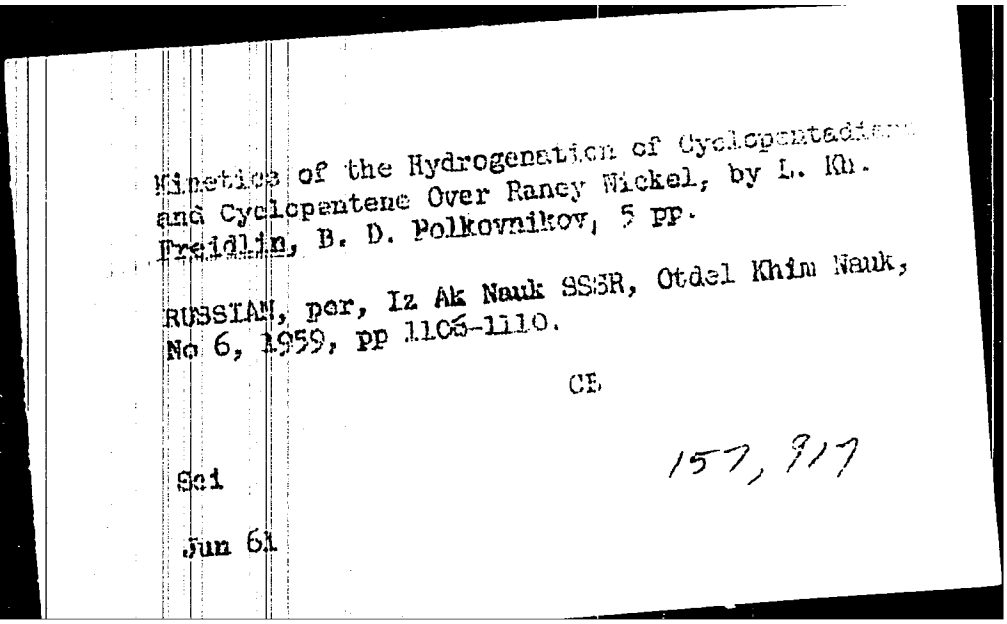

Kinetics of the Hydrogenation of Cyclopentadiene and Cyclopentene Over Raney Nickel, by L. Kh. Freidlin, B. D. Polkovnikov, 5 PP.

RUSSIAN, por, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 6, 1959, pp 1105-1110.

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Formation of Nitrogen-Containing Heterocycles in the Catalytic Hydrogenation of Succinonitrile and Phthalonitrile, by L. Kh. Freidlin, T. A. Sladkova, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 10, 1959, pp 1859-1861.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF HALOGEN BY A HYDROXYL IN THE AROMATIC SERIES.
I. CATALYTIC ACTIVITY OF SILICA GELS AND THEIR INACTIVATION. [1961] 9p. 17 refs.
Order from OTS or SLA $1.10 61-18219

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1945 [no. 1] p. 53-60

DESCRIPTORS: Benzenes, Chlorides, Hydrolysis, Phenols, Silicon compounds, Dioxides, *Gels, *Catalysis.

The catalytic activity of silica gels in vapor phase hydrolysis of chlorobenzene and their inactivation was studied. Silica gel prepared according to Okatov was found to possess a considerable catalytic activity in this process. The yield of phenol in its presence
Organic. TT. v. 6, no. 6) (over)

61-18219

I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Title: Catalytic...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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60,

On the Selectivity of Action of Zinc Catalyst in Hydrogenation Reactions of Mono-and Diolefin Hydrocarbons, by L. Kh. Freidlin, V. I. Gorshkov, 4 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I, No 4, 1960, pp 593-596.

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Catalytic Hydrogenation of Dimethylvinylethnylcarbinol, by L. Kh, Freidlin, B. D. Polkovnikov, V. I. Gorshkov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 6, 1961, pp 1120-1126

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh., Balandin, A. A., Fridman, G. A., and Lebedeva, A. E.
HYDROLYSIS OF CHLOROBENZENE WITH WATER VAPOR IN PRESENCE OF SILICA-GEL CATALYSTS. [1963] 15p 5refs
Order from OTS or SLA $1.60 63-18677

Trans. of Khimicheskaya Prom[yshlennost'] (USSR) 1945 [no. 12, p. 8-11].

DESCRIPTORS: *Benzenes, *Chlorides, *Hydrolysis, Silicon compounds, Gels, Dioxides, Catalysts, Additives.

(Chemistry--Organic, TT, v. 10, no. 10)

63-18677

1. Title: Phenyl chloride
I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Fridman, G. A.
IV. Lebedeva, A. E.

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Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Selective Hydrogenation of Butynediol into Butenediol on a Nickel Skeleton Catalyst, by L. Kh. Freidlin, A. A. Balandin, I. F. Shukova, 6 pp.

RUSSIAN, per, Kinetika i Kataliz, Vol I, No 3, 1960, pp 447-454.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Irreversible Catalysis and the Consecutive Character of the Hydrogenation of Unsaturated Bonds in 1,3-Cyclohexadiene on a Skeletal Nickel Catalyst, by L. Kh. Freidlin, B. D. Polkovnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 4, 1959, pp 721-726.

ATS RJ-2094

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May 60

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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Preparation of p-Xylylenediamine by Catalytic Reduction of Terephthalonitrile, by L. Kh. Freidlin, A. A. Balandin, T. A. Sladkova, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 5, 1957, pp 880-.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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The Kinetics and Sequence of Hydrogenation of Bonds in Peroxide Compounds Over a Nickel Catalyst, by A. A. Balandin, N. V. Nikiforova, L. Kh. Freidlin, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXII, No 4, 1957, pp 649-652.

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Jull 58

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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Vapor-Phase Hydration of Propylene Oxide Over Tricalcium Phosphate, by L. Kh. Freidlin, V. Z. Sharf, 5 pp

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 2, 1960 pp 182-187

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

The Effect of Water Vapour on the Structure and Activity of Raney-Nickel Catalyst, by V. D. Krylov, L. Kh. Freidlin, I. F. Zhukova, 3 pp.

RUSSIAN, pub, Zhur Fiz Khim, Vol XXXIII, No 11, 1959, pp 2559-2563.

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Mechanism of the Deactivation of Nickel Catalysts by Steam Under Pressure, by L. Kh. Freidlin, A. A. Balandin, N. V. Borunova, A. E. Agronomov, 8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 8, Aug 1956, pp 913-922.

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Stagewise Character of the Hydrogenation of the Double Bonds of Cyclopentadiene Over Raney Nickel, by L. Kh Freidlin, B. D. Polkovnikov, 8 pp.

RUSSIAN, mo per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 10, 1956, pp 1171-1179.

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Preparation of Hexamethylenediamine by the Continuous Hydrogenation of Adiponitrile on a Nickel Catalyst, by L. K. Freidlin, A. A. Balandin, K. G. Rudneva, T. A. Sladkova, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, pp 166-173, 1957.

SIA R-1619

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Investigation of Selectivity of Catalyst Action.
PT. 2. Reduction of Mesityl Oxide on Copper and Zinc
Copper Catalysts, by L. Kh. Freidlin, A. S. Sultanov
N. P. Abidova, 4 pp.

KHIMIYA, por, (Ak Nauk SSSR. Otdel Khim Nauk, Izvest)
No 5, 1958, pp 640-642.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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Study of the Selective Action of Catalysts.
Part 1. Reduction of Methyl Oxide and
Crotonaldehyde Over a Zinc Catalyst, by
L. Kh. Freidlin, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim
Nauk, No 3, 1958, pp 378-380.

Assoc Tech Serv RJ-1397
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Sci - Chem

Apr 59

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Catalytic Alkylation of n-Heptane With Propylene and n-Butene With Euglene at High Temperatures and Pressures, by /6 L. Kh. Freidlin, A. A. Baleridin, M. M. Kasarova, 4 pp.

/11

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CIX, No 1, pp 105-108. Jul/Aug 1956

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Dec 57

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Effect of Steam and Compression Treatments on the Macrostructure and Catalytic Activity of Alumina, by I. E. Neimark, L. Kh. Freidlin, A. I. Rastrenenko, N. V. Borunova, 6 pp.

RUSSIAN, no per, Iz Ak Nauk, Otdel Khim Nauk, No 7, 1956, pp 784-789.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Kinetics of the Dehydration of Alcohols in Presence of Tricalcium Phosphate, by L. Kh. Freidlin, A. N. Levit, 8 pp.

Full translation.

RUSSIAN, Zh obs, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 1, Jan-Feb 1952, pp 163-171.

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Scientific - Chemistry

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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Hydrogenation of 2-Ethylanthraquinone Over Raney Nickel, by L. Kh. Freidlin, E. F. Litvin, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 4, 1960, pp 734-738.

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May 62

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

The reaction of Nickel Oxide with Alumina in Steam and the Effect of Steam on the Properties of a Nickel - Alumina Catalyst, by L. Kh. Freidlin, N. V. Borunova, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, No 11, 1961, pp 2458-2464.

Cleaver-Hume Press

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Activity and Selectivity of a Zinc Catalyst in the Hydrogenation of an Acetylenic to an Ethylenic Bond, by L. Kh. Freidlin, V. I. Gorshkov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 4, 1960, pp 739-743.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Freidlin, L. Kh., Balandin, A. A. and others.
CATALYTIC SUBSTITUTION OF A HALOGEN BY A HYDROXYL IN THE AROMATIC SERIES. II. PROMOTERS OF SILICA GEL. [1961] 8p. 10 refs.
Order from OTS or SLA $1.10 61-18887

Trans. of Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk. Izvestiya, 1945, p. 375-383.

DESCRIPTORS: *Benzenes, *Chlorides, Chemical reactions, *Silicon compounds, *Dioxides *Gels, Calcium compounds, Barium compounds, Magnesium compounds, Catalysts, Catalysts, *Halogens, *Hydroxides, Substitution reactions.

Tests of the effect exerted by various salts on the activity of silica gel in vapor phase conversion of chlorobenzene at 450-600° revealed that these additions almost invariably reduce the catalytic activity of silica gel. Some salts, such as lithium chloride, in-
(Chemistry--Organic, TT, v. 6, no. 11) (over)

61-18887

I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Title: Promoters...

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

Catalytic Inertness of Amorphous Nickel in the Hydrogenation of Benzene and the Dehydrogenation of Cyclohexane, by A. M. Rubinshtein, L. Kh. Freidlin, N. V. Borunova, 2 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk, Otdel Khim Nauk, No 4, Jul/Aug 1955, pp 766-767. CIA C 41476

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Scientific - Chemistry
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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100390012-2

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Stability of Skeletal Nickel Catalyst at Elevated Temperature, by L. Kh. Freidlin, K. G. Rudneva, 4 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 6, USSR, Nov/Dec 1953, pp 1111-1115.
CIA D 151103

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CTS 66/Mar 55

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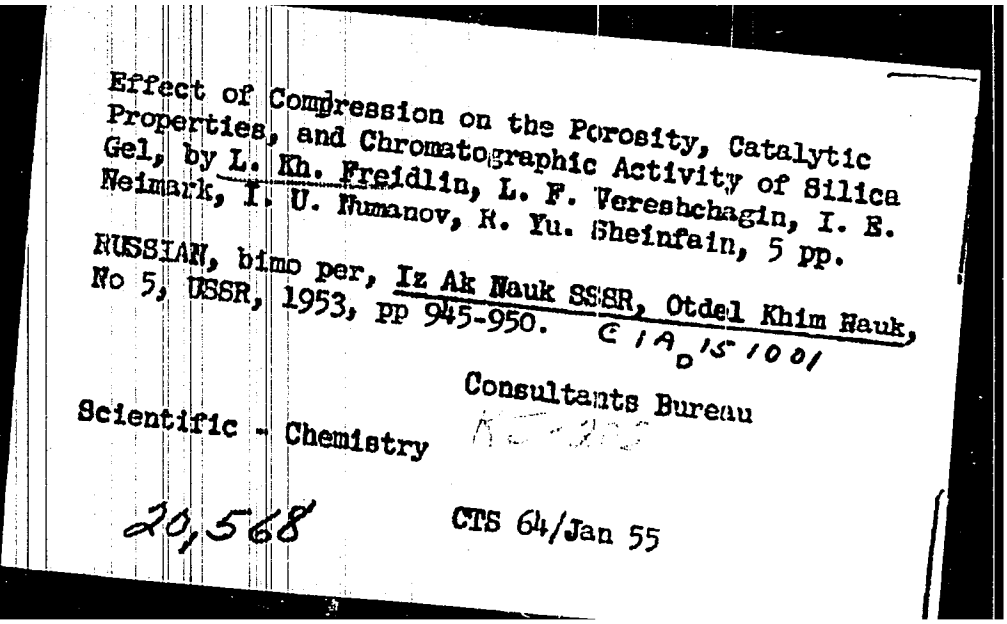

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Hydrogenation of Cyclopentadiene in Binary Mixtures With Unsaturated Hydrocarbons Over Palladium and Platinum Blacks, by L. Kh. Freidlin, B. D. Polkovnikov, 6 pp.

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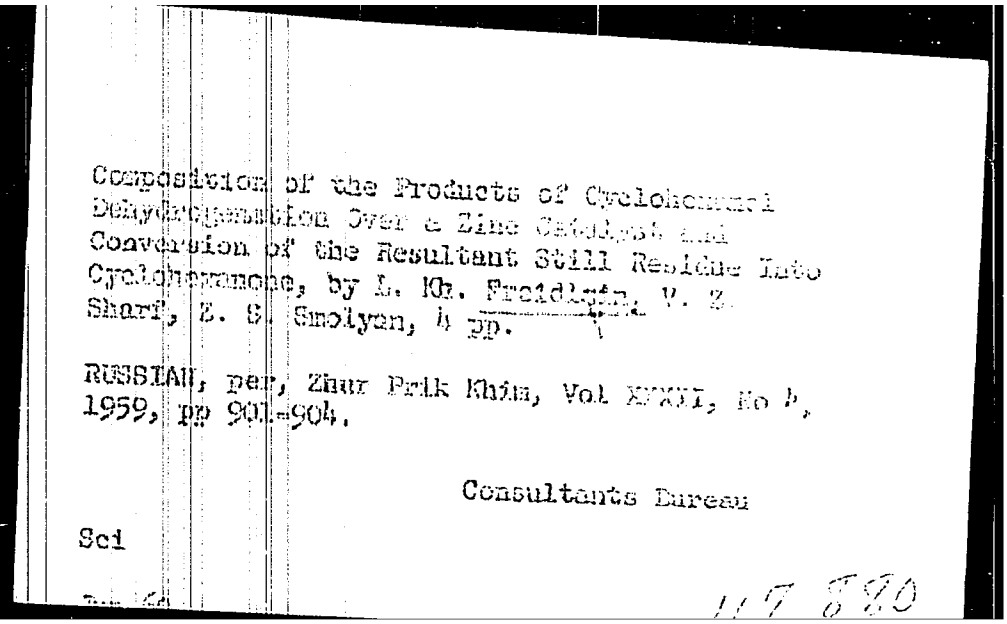

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Freidlin, L. [Kh.] Balandin, A. A., Lebedeva, A. I., and Fridman, G. A.
INVESTIGATION OF THE CATALYTICAL SUBSTITUTION OF HALOGEN BY HYDROXYL IN HYDROCARBONS OF AROMATIC SERIES. [1963] [12p] 17refs. N64-11004.
Order from OTS, SLA, or ETC $1.60 TT-63-20182

Trans. of [Akademiya Nauk SSSR. Otdelenie Khimicheskikh Nauk]. Izvestiya, 1947 [no. 5] p. 515-522. (Abstract available)

DESCRIPTORS: *Phenols, Synthesis (Chemistry), *Benzenes, *Chlorides, Substitution reactions, *Catalysis, *Copper catalysts, Silicon compounds, Dioxides, Gels, Purification.

Reaction of catalytic conversion of chlorobenzene into phenol with steam in the presence of silica gel impregnated with various copper compounds was studied. A (Chemistry--Organic, TT, v. 11, no. 7) (over)

TT-63-20182

I. Title: Phenyl chloride
I. Freidlin, L. Kh.
II. Balandin, A. A.
III. Lebedeva, A. I.
IV. Fridman, G. A.
V. N64-11004

Office of Technical Services

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Hydrogenation of Cyclopentadiene in Binary Mixtures with other Unsaturated Hydrocarbons in Presence of Raney Nickel, by L. Kh. Freidlin, B. D. Polkovnikov, 8 pp.

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Selective Action of Catalysts Prepared From Nickelous Oxide Treated With Stream Under Pressure, by L. Kh. Freidlin, A. A. Balandin, N. V. Borunova, 4 pp.

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